No. 200500035

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

DLF International Seeds and Rutgers, The State University of New Jersey

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC ESTABLISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, TALL

'Houndog 6'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this sixteenth day of May, in the year two thousand and eight.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions*

Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER
DLF International Seeds and Rutgers, The State University of New Jersey (bt: 4/29/08)

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
CIS-TF 67

3. VARIETY NAME
Houndog 6

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
PO Box 229
Halsey, OR 97348

5. TELEPHONE *(include area code)*
(541) 369-2251

6. FAX *(include area code)*
(541) 929-4087

FOR OFFICIAL USE ONLY

PVPO NUMBER
200500035

FILING DATE
December 10, 2004

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
OR

9. DATE OF INCORPORATION
1972

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*
Stephen W. Johnson
DLF International Seeds
PO Box 229
Halsey, OR 97348

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 3652
DATE 12/10/04

CERTIFICATION FEE:
$ 768.00
DATE 4/29/2008

11. TELEPHONE *(Include area code)*
(541) 369-2251

12. FAX *(Include area code)*
(541) 929-4087

13. E-MAIL

14. CROP KIND *(Common Name)*
Tall Fescue

16. FAMILY NAME *(Botanical)*
Graminae

15. GENUS AND SPECIES NAME OF CROP
Festuca arundinacea (bt: 12/15/2006)

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☑ NO

18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (*OPTIONAL*)
☐ YES ☑ NO
IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION. _____

19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED
(Follow instructions on reverse)

a. ☑ Exhibit A. Origin and Breeding History of the Variety
b. ☑ Exhibit B. Statement of Distinctness
c. ☑ Exhibit C. Objective Description of Variety
d. ☑ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☑ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☑ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 21 and 22 below)* ☑ NO *(If "no", go to item 23)*

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?
☐ YES ☐ NO
IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☐ YES ☑ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☑ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
Stephen W. Johnson			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Stephen W. Johnson			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Director of Research	12/08/2004		

(See reverse for instructions and information collection burden statement)

ST-470 (04-03) designed by the Plant Variety Protection Office using Word 2002.

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF HOUNDOG 6 TALL FESCUE

Houndog 6 tall fescue (*Fesctua arundinacea*) was developed by DLF International Seeds using germplasm obtained from the New Jersey Agricultural Experiment Station. A majority of the parental germplasm of Houndog 6 tall fescue traces its origin to plants selected from old turfs of the United States in a germplasm collection program initiated in 1962. In this project attractive clones were selected from old turfs in Birmingham, Alabama; Athens, Atlanta, and Millegeville, Georgia; Preston, Idaho; Baltimore, Maryland; Bayonne, Jersey City, Elizabeth, Princeton, and Cape May, New Jersey; eastern North Carolina; Philadelphia, Pennsylvania; Nashville, Tennessee; Lexington, Kentucky; Cincinnati, Ohio; Dallas, Texas; and northern Mississippi. The origins of the selected plants were unknown. All were large patches of turf surviving in stressful environments indicating that they had persisted and developed over a period of many years. In addition, approximately 20 percent of the germplasm used in the development of Houndog 6 traces to the variety Rebel, which was bred mainly using material from old turfs in New Jersey.

The plants collected from old turfs were established in spaced-plant nurseries and/or frequently mowed clonal evaluation trials at Rutgers University. The most promising plants were identified by their persistence and appearance in the nurseries, clonal tests, and single-plant progeny trails under turf maintenance. Intercrosses of the best performing plants were subjected to varying cycles of phenotypic and genotypic selection depending on their date of collection. New sources of germplasm were added to the breeding program as it became available from the continuing collection program. Each cycle of selection showed continued progress in producing lower-growing, darker green, attractive plants with improved turf performance scores.

Large numbers of single-plant progenies were seeded in turf evaluation trials in North Brunswick, New Jersey in 1992 and near Adelphia, New Jersey in 1995. The seed used for these progeny evaluations was harvested from spaced-plant nurseries at Adelphia following varying cycles of phenotypic and genotypic selection of germplasm from old turfs and germplasm selected from or related to turf-type tall fescue varieties including Rebel and Houndog 5.

Two thousand five hundred plants were selected from the best performing turf plots in the 1992 test sown at North Brunswick and the 1995 tall fescue trial at Adelphia. These plants were established in a spaced-plant nursery at Adelphia in the fall of 1996. Approximately 25% of the plants in this nursery were rouged for light green color, poor seed yield potential, disease susceptibility and unattractive appearance. The plants left were allowed to inter-pollinate in the nursery. Seed harvested from 30 plants with the superior floret fertility, later maturity, dwarf growth habit, high seed yield and attractive dark green appearance at the time of harvest was used to establish a turf plots in the fall of 1997 at Adelphia. In addition, one gram of each entry was sent to DLF International Seed (DLFIS) were it was used to establish a spaced plant nursery at DLFIS's Research Station near Tangent, Oregon. This nursery consisted of 120 plants from each of the 30 families.

From the fall of 1997 through the spring of 1999 the Oregon nursery and the New Jersey turf plots were observed. In the late spring of 1999 sixteen plants were selected from the nursery and crossed in isolation. These plants were selected from eight of the 30 families. Selection was based on family turf performance, darker green color and dense tillering. Following seed ripening the 16 plants in the cross were harvested separately. A portion of the seed from each plant was used to establish progeny turf plots near Adelphia, New Jersey and Tangent, Oregon in the fall of 1999. Part of the seed was also used in 1999 to plant a spaced plant nursery near Tangent. This nursery consisted of four replications of 60 plants of each of the 16 families for a total of 3840 plants.

Prior to flowering in the summer of 2001 twenty plants were selected from each of 10 families in the 1999 planted nursery. These were the 10 families that had exhibited the highest turf quality in the Adelphia and Tangent progeny turf trials. The selection was based on tillering, dark green color and lower total plant height. The 200 selected plants were transplanted to an isolated crossing block and allowed to interpollinate. After seed ripening the block was bulk harvested. This seed was the first breeder seed of the variety. A supply of breeder seed is maintained under controlled conditions by DLF International Seeds.

The variety Houndog 6 has appeared uniform and stable during multiplication from breeder to foundation generation. Houndog 6 has a small (<0.25%) percentage of plants that are somewhat taller and coarser than the rest of the population. The percentage of these plants appears to be stable when seed is multiplied from breeder to foundation generation.

Variant (bt: 4/1/'08)

uniform and (bt: 9/21/2007)

EXHIBIT B

#200500035

Statement of Distinctness

Houndog 6 tall fescue (*Festuca arundinacea*) is a medium-late maturity variety with a short mature plant height.

Houndog 6 is most similar to the varieties Raptor and Kalahari.

Differences between Houndog 6 and Raptor include, but are not necessarily limited to the following:

1) The heading date of Houndog 6 is three days later Raptor when grown in western Oregon (Day of Year = 150 vs. 147) (see Exhibit D Table 1).

Differences between Houndog 6 and Kalahari include, but are not necessarily limited to the following:

1) Houndog 6 has a significantly darker green leaves than Kalahari when grown in western Oregon (7.0 vs. 6.2 on 9=very dark green scale) (see Exhibit D Table 3).

2) Houndog 6 has a significantly shorter panicle length than Kalahari when grown in western Oregon (17.6 cm vs. 27.8 cm) (see Exhibit D Table 2).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Tall and Meadow Fescues (*Festuca* spp.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
DLF International Seeds and Rutgers, The State University of New Jersey (bt: 4/29/08)	CIS-TF 67	Houndog 6

ADDRESS (*Street and No. or RD No., City, State, Zip Code, and Country*)
PO Box 229
175 West "H" Street
Halsey, Oregon 97348 USA

FOR OFFICIAL USE ONLY

PVPO NUMBER
200500035

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal characteristics of this variety in the spaces below. Use leading zeros when necessary (e.g., 089 or 09) when number is either 99 or less or 9 or less. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Cultural conditions must be stated in the comment section and plant number/data points shown in all tables.

1. SPECIES: (With comparison varieties, use varieties within the species of the application variety)

X 1 = *F. arundinacea* (Tall)

Turf Types

1 = Kentucky 31 | 2 = Rebel | 3 = Olympic | 4 = Bonanza | 5 = Arid | 6 = Rebel II

7 = Shortstop | 8 = Silverado | 9 = Rebel Jr. | 10 = Mini Mustang | 11 = Crewcut | 12 = Bonsai

Forage Types

20 = Kentucky 31 | 21 = Martin | 22 = Forager | 23 = Mozark

24 = Kenhy | 25 = AU Triumph | 26 = Fawn | 27 = Cajun

___ 2 = *F. pratensis* (Meadow)

30 = Admira | 31 = Beaumont | 32 = Comtessa | 33 = Ensign | 34 = Trader

2. CYTOLOGY:

42 Chromosome Number

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

___ Transition Zone ___2___ West ___ Northeast ___ Other (Specify) _____

4. MATURITY: (Date First Headed, 10% of Panicle Emergence)

6 Maturity Class 1 = Very Early ( ) 2 = AU Triumph 3 = Early (Fawn) 4 = K31, Kenhy 5 = Medium (Rebel)

6 = Bonanza 7 = Late (Silverado) 8 = ( ) 9 = Very Late

Date Headed May 28 Location Western Oregon

200500035

4. MATURITY: (continued)

3 Days Earlier Than 7
Maturity Same As 11
1 Days Later Than 10
} Comparison Variety

5. MATURE PLANT HEIGHT cm: (Average of 100 culms from crown to top of panicle, if panicle is nodding, straighten)

64.8 cm Height
15.0 cm Shorter Than 7
Height Same As Raptor
___.__ cm Taller Than ___
} Comparison Variety

* INTERNODE LENGTH cm: (First internode subtending the flag leaf)

34.5 cm Internode Length
06.6 cm Shorter Than 11
Length Same As 12
___.__ cm Taller Than ___
} Comparison Variety

HEIGHT AT EAR EMERGENCE cm: (Flag leaf height from crown to flag leaf collar)

26.2 cm Height
07.4 cm Shorter Than 8
Height Same As 12
___.__ cm Taller Than ___
} Comparison Variety

6. GROWTH HABIT: (Mature Plants)

3 1 = Prostrate ( ) 3 = Semiprostrate ( ) 5 = Horizontal ( )
7 = Semierect (Rebel) 9 = Erect (Mini Mustang)

7. RHIZOMES: (Pseudo)

___.__ mm Length 2 1 = Absent ( ) 2 = Rare (Rebel) 3 = Common ( )

8. LEAF BLADE: (Tiller Leaves/Turf Color)

7 Color 1 = Light Green ( ) 3 = Medium Light Green ( ) 5 = Green (Shortstop)
7 = Medium Dark Green ( ) 9 = Very Dark Green ( )

___ Specify Rating of Comparison Variety

2 Anthocyanin: 1 = Absent ( ) 9 = Present ( )

1 Basal Hairs: 1 = Absent ( ) 9 = Present ( )

5 Margins: 1 = ~~Absent~~ Smooth (BT: 9/21/07)) 5 = Semi-rough ( ) 9 = Rough ( )

6 Width Class: 1 = Very Coarse ( ) 3 = Coarse ( ) 5 = Medium ( )
7 = Fine (Bonsai) 9 = Very Fine ( )

TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf)

12.0 cm Tiller Leaf Length
04.2 cm Shorter Than 7
Length Same As Raptor
___.__ cm Taller Than ___
} Comparison Variety

TILLER LEAF WIDTH MM:

06.5 mm Tiller Leaf Width
2.1 mm Narrower Than 9
Width Same As Raptor
___.__ mm Longer Than ___
} Comparison Variety

8. LEAF BLADE: (Continued)

FLAG LEAF LENGTH CM:

11.0 cm Flag Leaf Length

02.9 cm Shorter Than 7

Length Same As Raptor } Comparison Variety

03.5 cm Longer Than 12

* FLAG LEAF WIDTH MM: 200500035

05.0 mm Flag Leaf Width

2.0 mm Narrower Than 4

Width Same As Raptor } Comparison Variety

__.__ mm Wider Than ____

9. LEAF SHEATH: (Basal Portion)

2 Anthocyanin (Seedling): 1 = Absent (K31) 9 = Present ( )

2 Auricle Hairiness: 1 = Absent ( ) 9 = Present ( )

10. PANICLE: (At seed maturity except where noted.)

4 Shape: 1 = Narrow-tapering ( ) 5 = Ovate ( ) 7 = Oblong ( ) 9 = Other (Specify) _____

5 Type: 1 = Compact (appressed) 5 = Intermediate ( ) 7 = Open ( ) 9 = Other (Specify) _____

8 Orientation: 1 = Nodding ( ) 9 = Erect ( )

4 Branch Pubescence: 1 = Glabrous ( ) 9 = Pubescent ( )

1 Anther Color (At Anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green 4 = Purplish 5 = Reddish 6 = Other (Specify) _____

2 Glume Color (At Anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green 4 = Purplish 5 = Reddish 6 = Other (Specify) _____

17.6 cm Panicle Length (From base to tip, if nodding, straighten; after anthesis)

3.2 cm Shorter Than 6

Length Same As Bingo } Comparison Variety

__.__ cm Longer Than ____

11. SEED: (With Lemma and Pelea)

2503 mg per 1000 seeds

486 mm Less Than 4

Weight Same As 10 } Comparison Variety

___ mm More Than ____

Pelea: (Keels or Margins) 3 Hairs: 1 = Absent ( ) 5 = Short (Missouri 96) 9 = Long ( )

Lemma: 4 Hairs: 1 = Absent (Kenhy) 5 = Several ( ) 9 ~~Long~~ Many (Missouri 96) (BT: 9/21/07)

63 mm Lemma Length (Mature)

0.9 mm Shorter Than Tomahawk

Length Same As 9 } Comparison Variety

mm Longer Than ____

(BT: 9/21/07)

1.4 mm Lemma Width

__.__ mm Narrower Than ____

Width Same As 10 } Comparison Variety

__.__ mm Wider Than ____

11. SEED: (continued)

AWNS: 9 1 = Absent ( ) 9 = Present (Falcon) 100 % Plants with Awns 200500035

0.7 mm Awn Length (of those present)

__.__ mm Shorter Than ____

Length Same As Raptor } Comparison Variety

__.__ mm Longer Than ____

12. DISEASE, INSECT, AND NEMATODE REACTION: (0 = Not Tested 1 = Least Resistant 9 = Most Resistant)

___ Melting-out (*Drechslera poae*)
___ Leaf Spot (*D. siccans*)
___ Net Blotch (*D. dictyoides*)
___ Brown Patch (*Rhizoctonia solani*)
___ C. Leaf Spot (*Cercospora fectucae*)
___ Pink Snow Mold (*Gerlachia nivalis*)
___ Silver Tip (*F. tricinctum, F. roseum*)
___ Other Disease _____
___ Other Insect _____
___ Other Nematode _____

___ Blind Seed (*Gloeotinia temulenta*)
___ Dollar Spot (*Lanzia, mollerdiscus* spp.)
___ Stem Rust (*Puccinia graminis*)
___ T. Blight (*Typhula incarnata*)
___ Pythium Blight (*Pythium* spp.)
___ Powdery Mildew (*Erysiphe graminis*)
___ Crown Rust (*Puccinia coronata*)

13. ENVIRONMENTAL STRESS:

___ Drought Stress	1 = Susceptible ( )	5 = Tolerant ( )	9 = Resistant ( )
___ Shade Stress	1 = Susceptible ( )	5 = Tolerant ( )	9 = Resistant ( )
___ Winter Stress	1 = Susceptible ( )	5 = Tolerant ( )	9 = Resistant ( )

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics, indicate the degree of resemblance with the following scale:

1 = Application Variety is Less Than Comparison Variety. 2 = Same as 3 = More Than, Better, Greater, Darker, etc.

Character	Varieties	Rating	Character	Varieties	Rating
Leaf Width	Bonsai	2	Leaf Color	Bonsai	2
Panicle Color			Panicle Shape		
Seed Size	Bonsai	1	Cold Injury		
Winter Color			Heat		
Disease					

15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.

Plants were grown in two tests. One near Tangent, Oregon, the other near Shedd, Oregon. in 2002. Trials consisted of 3 replications of each variety with 10 plants per replication. Plants were spaced 1.5 feet apart with a row and rows were spaced 3 feet apart.

EXHIBIT D
Table 1

Heading dates in day of year for tall fescue varieties grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication. Trials were conducted using completely random designs. Plant spacings were 1.5 feet within rows and 3 feet between rows.

VARIETY	Tangent	Shedd	Average
KY-31	142.4	142.1	142.2
Tomahawk	143.5	143.6	143.6
Bingo	146.2	145.3	145.8
Raptor	147.0	146.1	146.5
Mini Mustang	147.6	149.3	148.5
Rebel II	147.6	147.5	147.6
Houndog 5	147.8	148.1	148.0
Rebel Jr.	148.6	149.8	149.2
Crewcut	148.7	148.1	148.4
Houndog 6	**149.7**	**149.5**	**149.6**
Southern Comfort	149.9	147.8	148.8
Kalahari	150.0	149.7	149.8
Silverado	150.8	151.2	151.0
Bonanza	150.9	148.3	149.6
Corgi	152.7	151.3	152.0
Shortstop	153.9	151.7	152.8
Bonsai	154.9	152.8	153.8
LSD @ 0.05	2.0	2.1	

EXHIBIT D
Table 2

Morphological measurements of tall fescue cultivars grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication.Plants were spaced 1.5 feet apart within a row and rows were spaced 3 feet apart.

	Canopy Leaf Length (cm)			Plant Height (cm)			Internode Length (cm)			Flag Leaf Height (cm)		
VARIETY	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
KY-31	41.3	25.9	33.6	117.9	96.5	107.2	56.7	43.4	50.0	55.1	46.1	50.6
Bonanza	33.2	30.0	31.6	98.1	92.0	95.1	51.0	39.6	45.3	46.3	38.1	42.2
Rebel II	34.1	23.9	29.0	109.7	91.1	100.4	55.4	43.9	49.6	47.7	38.9	43.3
Tomahawk	31.6	25.3	28.4	99.8	87.5	93.7	47.0	43.0	45.0	37.3	41.7	39.5
Mini Mustang	27.4	23.1	25.3	93.4	80.6	87.0	42.5	38.8	40.6	38.9	30.1	34.5
Crewcut	28.8	20.1	24.5	99.6	83.0	91.3	45.6	36.7	41.1	40.9	29.4	35.1
Houndog 5	27.4	18.6	23.0	97.6	77.7	87.6	46.3	38.0	42.2	43.5	33.1	38.3
Silverado	29.2	16.5	22.9	90.3	65.4	77.9	43.4	34.1	38.7	35.0	32.3	33.6
Rebel Jr.	24.2	21.5	22.9	91.1	86.9	89.0	36.7	35.2	36.0	35.4	31.5	33.5
Kalahari	25.1	16.2	20.7	76.2	61.5	68.9	41.3	31.1	36.2	33.3	23.7	28.5
Southern Comfort	25.6	15.4	20.5	82.1	66.3	74.2	43.3	36.3	39.8	33.5	26.6	30.1
Shortstop	21.9	17.8	19.8	81.9	77.7	79.8	36.8	41.1	38.9	37.5	37.0	37.3
Bingo	22.2	16.5	19.4	79.4	69.4	74.4	40.8	34.2	37.5	32.7	34.0	33.4
Raptor	23.5	10.2	16.8	76.4	51.2	63.8	42.1	27.4	34.8	32.8	20.1	26.5
Houndog 6	**19.5**	**14.3**	**16.9**	**69.7**	**59.9**	**64.8**	**38.9**	**30.0**	**34.5**	**28.9**	**23.6**	**26.2**
Corgi	16.6	11.8	14.2	63.3	47.8	55.5	32.4	27.3	29.9	24.6	22.6	23.6
Bonsai	15.5	9.4	12.5	75.6	54.0	64.8	39.8	29.4	34.6	28.2	22.1	25.2
LSD 0.05	3.2	2.1		5.6	3.6		5.5	5.1		5.2	4.1	

EXHIBIT D
Table 2 (continued)

Morphological measurements of tall fescue cultivars grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication. Plants were spaced 1.5 feet apart within a row and rows were spaced 3 feet apart.

	Flag Leaf Length (cm)			Flag Leaf Width (mm)			Tiller Leaf Length (cm)			Tiller Leaf Width (mm)			Panicle Length (cm)		
VARIETY	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
Bonanza	18.7	19.5	19.1	8.0	6.1	7.0	23.1	20.4	21.8	9.5	8.6	9.1	23.2	17.1	20.1
Rebel II	16.0	15.7	15.9	6.5	5.2	5.8	20.2	21.0	20.6	7.9	7.7	7.8	21.3	20.3	20.8
Rebel Jr.	14.9	15.7	15.3	6.8	5.6	6.2	19.1	16.3	17.7	8.4	8.1	8.2	25.0	21.1	23.0
KY-31	15.5	14.4	15.0	7.0	5.3	6.2	21.4	20.6	21.0	8.8	8.3	8.6	17.4	19.2	18.3
Mini Mustang	13.2	14.7	14.0	5.7	5.4	5.5	16.7	15.7	16.2	6.9	6.6	6.7	20.6	16.8	18.7
Shortstop	12.8	15.1	13.9	7.8	5.1	6.4	16.8	15.6	16.2	9.2	5.7	7.4	15.0	12.3	13.6
Houndog 5	14.1	12.6	13.3	6.7	4.9	5.8	17.8	15.2	16.5	8.5	6.3	7.4	27.0	25.7	26.3
Tomahawk	15.1	11.0	13.1	6.0	4.7	5.3	18.6	17.1	17.8	8.7	5.7	7.2	22.5	19.7	21.1
Silverado	14.5	10.4	12.5	7.2	5.4	6.3	17.4	14.6	16.0	8.4	6.6	7.5	20.3	20.3	20.3
Crewcut	14.1	10.6	12.3	7.2	5.4	6.3	26.7	14.5	20.6	8.4	5.9	7.2	21.6	19.8	20.7
Kalahari	13.0	11.6	12.3	6.6	5.1	5.9	15.3	13.6	14.5	7.8	6.9	7.4	26.0	29.7	27.8
Southern Comfort	13.3	10.3	11.8	6.5	5.1	5.8	16.2	13.2	14.7	7.6	6.8	7.2	14.7	12.4	13.5
Raptor	10.7	11.7	11.2	5.3	4.8	5.1	15.2	9.7	12.4	6.6	5.4	6.0	21.0	20.9	20.9
Bingo	11.0	10.5	10.7	5.8	5.0	5.4	14.7	15.7	15.2	7.6	7.3	7.5	18.3	15.0	16.7
Houndog 6	**11.1**	**10.8**	**11.0**	**5.1**	**4.9**	**5.0**	**13.9**	**10.1**	**12.0**	**7.5**	**5.5**	**6.5**	**18.0**	**17.1**	**17.6**
Corgi	8.5	7.0	7.7	4.7	2.9	3.8	11.9	10.1	11.0	6.4	4.1	5.2	17.6	14.8	16.2
Bonsai	8.7	6.2	7.5	5.4	3.1	4.2	10.7	8.7	9.7	6.5	4.7	5.6	17.6	16.3	16.9
LSD 0.05	1.9	2.3		0.8	0.9		4.3	2.6		1.1	1.0		2.5	2.8	

200500035

EXHIBIT D

Table 3

2002

Leaf characteristics of tall fescue varieties grown near Tangent and Shedd Oregon

(CST: 9/21/2007)

	Leaf Color (1-9; 9=dark green)			Leaf Width (1-9; 9=very narrow)			% Plants with Leaf Anthocyanin		
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
Corgi	7.2	6.9	7.0	7.1	7.0	7.0	25.3	23.3	24.3
Houndog 6	**7.2**	**6.9**	**7.0**	**6.3**	**6.4**	**6.4**	**16.7**	**20.7**	**18.7**
Raptor	6.6	6.2	6.4	6.0	6.4	6.2	24.7	17.0	20.8
Bonsai	6.5	6.5	6.5	7.1	6.9	7.0	10.0	8.3	9.2
Bingo	6.3	6.2	6.2	6.2	6.0	6.1	14.7	29.0	21.8
Kalahari	6.2	6.1	6.2	6.0	5.5	5.7	8.3	26.7	17.5
Silverado	6.0	5.4	5.7	5.4	5.3	5.4	17.7	20.0	18.8
Tomahawk	6.0	5.7	5.8	5.6	5.0	5.3	38.3	31.3	34.8
Houndog 5	5.8	4.6	5.2	5.3	4.6	4.9	37.0	27.7	32.3
Shortstop	5.8	4.6	5.2	5.4	5.0	5.2	19.0	26.7	22.8
Southern Comfort	5.8	5.8	5.8	5.7	5.5	5.6	30.3	41.0	35.7
Crewcut	5.5	5.0	5.3	5.2	5.6	5.4	31.0	54.3	42.7
Rebel Jr.	5.5	5.2	5.4	5.2	5.0	5.1	33.0	59.0	46.0
Mini Mustang	5.4	5.0	5.2	5.4	4.9	5.1	29.3	32.3	30.8
Rebel II	5.3	5.3	5.3	5.0	4.5	4.8	40.0	60.7	50.3
Bonanza	4.8	4.4	4.6	4.8	4.0	4.4	48.3	60.0	54.2
KY-31	4.2	2.7	3.4	3.4	3.1	3.3	74.3	52.3	63.3
LSD @ 0.05	0.6	0.6		0.6	0.5		23.2	15.0	

EXHIBIT D
Table 4

2002 Panicle Traits of Tall Fescue Varieties Grown Near Tangent and Shedd, Oregon

	% of Plants with Erect Panicles			% of Plants with Panicle Branch Pubescence		
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average
Corgi	100.0	100.0	100.0	32.7	18.3	25.5
Raptor	100.0	93.3	96.7	72.7	38.0	55.3
Bingo	100.0	82.0	91.0	59.0	30.7	44.8
Rebel Jr.	88.0	68.3	78.2	62.3	47.7	55.0
Bonsai	86.7	87.7	87.2	43.3	25.0	34.2
Mini Mustang	83.3	47.7	65.5	61.3	29.3	45.3
Kalahari	80.0	96.7	88.3	83.3	53.3	68.3
Houndog 6	**70.0**	**89.7**	**79.8**	**49.3**	**30.7**	**40.0**
Shortstop	67.7	58.0	62.8	54.7	48.7	51.7
Southern Comfort	64.0	82.3	73.2	68.3	46.7	57.5
Houndog 5	53.0	51.7	52.3	38.7	17.3	28.0
Bonanza	52.7	20.7	36.7	59.3	52.3	55.8
Silverado	48.3	67.0	57.7	81.0	39.7	60.3
Tomahawk	39.7	57.7	48.7	62.3	58.7	60.5
Crewcut	39.7	53.3	46.5	45.7	46.7	46.2
KY-31	34.7	24.7	29.7	52.3	30.3	41.3
Rebel II	30.7	36.0	33.3	52.3	39.3	45.8
LSD @ 0.05	18.0	17.4		19.9	15.9	

EXHIBIT D
Table 5

2002 Seed characteristics of tall fescue varieties grown near Tangent and Shedd, Oregon

	Mg per 1000 seeds			Palea Hairs (1-9; 1=abesent to 9=long)			Lemma Hairs (1-9; 1=absent to 9=many)			Lemma Length (mm)			Lemma Width (mm)			Awn Length (mm)		
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
Tomahawk	2957.8	3662.0	3309.9	2.0	2.6	2.3	2.5	3.2	2.8	7.2	7.2	7.2	1.5	1.5	1.5	0.7	0.8	0.8
KY-31	2876.9	3851.7	3364.3	1.7	2.6	2.1	2.0	4.3	3.1	6.1	6.0	6.0	1.3	1.4	1.4	0.7	0.7	0.7
Bonanza	2813.4	3164.8	2989.1	1.7	3.1	2.4	3.1	3.6	3.3	6.7	7.2	7.0	1.4	1.7	1.6	0.7	0.9	0.8
Rebel II	2793.1	2934.0	2863.5	2.3	2.6	2.4	3.1	3.6	3.3	6.5	6.3	6.4	1.5	1.4	1.4	0.7	1.0	0.8
Shortstop	2629.2	2508.0	2568.6	1.4	2.3	1.9	2.4	3.2	2.8	6.3	6.4	6.4	1.4	1.4	1.4	0.9	0.9	0.9
Silverado	2564.4	2702.4	2633.4	1.5	2.2	1.9	2.0	3.0	2.5	6.9	6.6	6.7	1.5	1.5	1.5	1.1	0.9	1.0
Bingo	2546.5	2800.3	2673.4	1.7	2.9	2.3	2.7	3.9	3.3	6.2	6.5	6.4	1.4	1.4	1.4	1.0	1.0	1.0
Raptor	2535.2	2747.6	2641.4	2.6	2.3	2.4	3.0	3.8	3.4	6.3	5.9	6.1	1.4	1.5	1.4	0.9	0.9	0.9
Corgi	2469.1	2553.6	2511.3	2.0	2.9	2.5	4.3	4.4	4.3	5.7	5.6	5.7	1.4	1.4	1.4	0.8	0.7	0.7
Rebel Jr.	2456.3	2073.1	2264.7	1.4	2.9	2.2	2.2	3.0	2.6	6.4	6.2	6.3	1.4	1.4	1.4	1.2	0.9	1.0
Southern Comfort	2451.4	2575.5	2513.5	1.3	1.8	1.6	2.1	2.8	2.4	6.5	6.2	6.4	1.3	1.3	1.3	1.1	0.8	1.0
Crewcut	2428.2	2611.1	2519.7	1.1	2.1	1.6	1.8	3.6	2.7	6.6	6.6	6.6	1.4	1.5	1.4	0.9	1.2	1.0
Kalahari	2427.6	2718.9	2573.3	2.2	3.7	3.0	3.1	4.3	3.7	6.2	6.3	6.2	1.4	1.4	1.4	1.2	1.0	1.1
Mini Mustang	2406.1	2534.0	2470.1	2.0	2.7	2.4	4.3	3.3	3.8	6.4	7.3	6.8	1.4	1.5	1.4	1.1	1.5	1.3
Houndog 6	**2390.3**	**2616.0**	**2503.1**	**2.3**	**3.3**	**2.8**	**4.1**	**3.9**	**4.0**	**6.3**	**6.2**	**6.3**	**1.4**	**1.4**	**1.4**	**0.9**	**0.7**	**0.8**
Bonsai	2376.7	2259.0	2317.9	1.7	2.5	2.1	2.3	3.5	2.9	6.8	6.8	6.8	1.4	1.4	1.4	0.9	1.0	0.9
Houndog 5	2361.6	2738.0	2549.8	1.4	2.3	1.9	3.2	3.6	3.4	6.4	6.6	6.5	1.4	1.4	1.4	0.6	1.0	0.8
LSD @ 0.05	204.5	381.8		0.7	0.7		0.8	0.7		0.4	0.6		0.1	0.1		0.4	0.3	

REPRODUCE LOCALLY. Include form number and edition date on all reproductions. FORM APPROVED - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
(bl:4/29/08) DLF International Seeds and Rutgers, The State University of New Jersey	CIS-TF 67	Houndog 6
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	**5. TELEPHONE** *(Include area code)*	**6. FAX** *(Include area code)*
PO Box 229 Halsey, OR 97348	(541) 369-2251	(541) 929-4087
	7. PVPO NUMBER 200500035	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** ☑ **YES** ☐ **NO**

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** ☑ **YES** ☐ **NO**

10. Is the applicant the original owner? ☑ **YES** ☐ **NO** **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☐ **YES** ☐ **NO** **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ **YES** ☐ **NO** **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

Houndog 6 was developed by DLF International Seeds using germplasm obtained from the New Jersey Agricultural Experiment Station.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S)	ADDRESS *(Street and No. or RD No., City, State, and Zip Code and Country)*	TEMPORARY OR EXPERIMENTAL DESIGNATION
DLF International Seeds and Rutgers, The State University of New Jersey (Dt: 4/29/08)	PO Box 229 Halsey, OR 97348 USA	CIS-TF 67
		VARIETY NAME Houndog 6
NAME OF OWNER REPRESENTATIVE (S)	**ADDRESS** *(Street and No. or RD No., City, State, and Zip Code and Country)*	FOR OFFICIAL USE ONLY
Stephen W. Johnson	PO Box 229 Halsey, OR 97348 USA	**PVPO NUMBER** #200500035

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Stephen W Johnson
Signature

November 5, 2007
Date